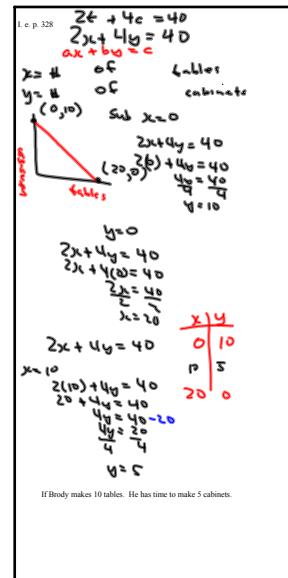


Test Review
Rearranging the Line and Pt of Intersection

p 328 q. 1,2
p 330 q. 3,4,5
p 332 q. 6
p 334 q. 11, 12 & 13
p 176 q. 23 & 24

Test Friday

Apr 28-10:02 AM



May 2-1:08 PM

p. 330

$$1.2c + 1.5b = 26.4$$

$$1.2x + 1.5y = 26.4$$

$x = \# \text{ of trips by car}$
 $y = \# \text{ of trips by bus}$

$y = 12$

$$1.2x + 1.5(12) = 26.4$$

$$1.2x + 18 = 26.4$$

$$1.2x = 26.4 - 18$$

$$1.2x = 8.4$$

$$\frac{1.2x}{1.2} = \frac{8.4}{1.2}$$

$$x = 7$$

If she travelled 12 times on the bus, she travelled 7 times by car.

May 2-1:23 PM

Rearrange

$$-0.3x - 0.55y = 1$$

$x = 0$

$$-0.3(0) - 0.55y = 1$$

$$-0.55y = 1$$

$$y = \frac{1}{-0.55}$$

$$y = -1.81$$

Point of Intersection

$$-0.3x - 0.55y = 1$$

$$-0.3x - 0.55(-1.81) = 1$$

$$-0.3x + 0.9955 = 1$$

$$-0.3x = 1 - 0.9955$$

$$-0.3x = 0.0045$$

$$x = \frac{0.0045}{-0.3}$$

$$x = -0.015$$

Point of Intersection

$$-0.3x - 0.55y = 1$$

$$y = mx + b$$

$$-0.55y = +0.3x + 1$$

$$\frac{-0.55y}{-0.55} = \frac{+0.3x}{-0.55} + \frac{1}{-0.55}$$

$$y = -0.54x - 1.81$$

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$$-5x + 3y = 6$$

$$Ax + By + C = 0$$

(A = +ve A = whole #)

$$-5x + 3y - 6 = 0$$

$$+5x - 3y + 6 = 0$$

$$3\left(\frac{1}{3}x + 5y - 7\right) = 0(3)$$

$$\frac{3}{3}x + 15y - 21 = 0$$

$$x + 15y - 21 = 0$$

May 2-1:43 PM

p. 176 q. 23

$$x + y = 4$$

$$y = -x + 4$$

$$x - 2y = 4$$

$$-2y = x + 4$$

$$y = \frac{x + 4}{-2}$$

$$y = -\frac{1}{2}x - 2$$

Point of Intersection

$$2(-x + 4) = \left(\frac{1}{2}x - \frac{1}{2}\right)2$$

$$-2x + 8 = \frac{2x}{2} - \frac{2}{2}$$

$$-2x + 8 = x - 1$$

$$8 = x + 2x - 1$$

$$8 = 3x - 1$$

$$8 + 1 = 3x$$

$$9 = 3x$$

$$3 = x$$

Point of Intersection

$$x + y = 4$$

$$3 + y = 4$$

$$y = 4 - 3$$

$$y = 1$$

Point of Intersection

$$(3, 1)$$

May 2-1:49 PM

Review Opener

Bell

Net Zero

 x = # of minutes y = Cost in \$

$$y = .03x + 15$$

$$y = .05x + 10$$

$$\begin{aligned}
 y_1 &= y_2 \\
 0.03x + 15 &= 0.05x + 10 \\
 0.03x + 15 - 10 &= 0.05x \\
 0.03x + 5 &= 0.05x \\
 5 &= 0.05x - 0.03x \\
 5 &= 0.02x \\
 \frac{5}{0.02} &= \frac{0.02x}{0.02} \\
 250 &= x
 \end{aligned}$$

May 1-1:10 PM

$$\begin{aligned}
 y &= 0.03x + 15 \\
 x &= 250 \\
 y &= 0.03(250) + 15 \\
 y &= 7.5 + 15 \\
 y &= 22.5 \\
 (250, 22.5)
 \end{aligned}$$

At 250 min both companies charge \$22.50. Before 250 min Net Zero is cheaper. After 250 min, Bell is cheaper.

May 1-1:17 PM